# ubuntu

# IoT App Store

## Your private platform for secure software distribution

To evolve with the growing world of IoT, we have created the IoT App Store, a custom application store tailored to software distribution across fleets of devices. This store allows you to create, publish and distribute software on one centralised platform, with reliable over-the-air updates to your devices in a secure and validated way.

The IoT App Store is adopted by a large number of enterprises around the world, with a variety of IoT use cases. Canonical also offers a global store, open to all with a wealth of software available to you and your devices.

| 10+ million devices | 10,000+ apps |
|---|---|
| connected to the global Store | available in the global Store |

## Transactional OTA Updates

The IoT App Store harnesses the power of transactional, over-the-air updates. This means that if for any reason an update you push to your device fails, the software will roll back to its last stable state. Transactional updates make updating your software worry-free, without risk of software failure, which is a huge advantage when managing devices in the field.

Over-the-air (OTA) updates serve devices distributed across the world. If your engineering team publishes a new version of an application to your devices, all those devices will receive the update remotely, even if they are in different locations.

## Private and custom to you

The IoT App Store is private to you, the users you assign to the store and the devices you own. All of this information can be seen on your branded App Store dashboard. Create your own custom software with enhanced features, including strict application confinement, containerisation and integration into CI/CD pipelines.

## Software distribution at scale

The IoT App Store is suited for managing software on huge numbers of distributed devices. There are over 10,000 applications to choose from in the global store. You can cherry pick the optimal combination of applications you want your devices to use, including software published in the global store and custom software from your private IoT App Store. Using software curation, you have an endless number of applications to craft, try and select.
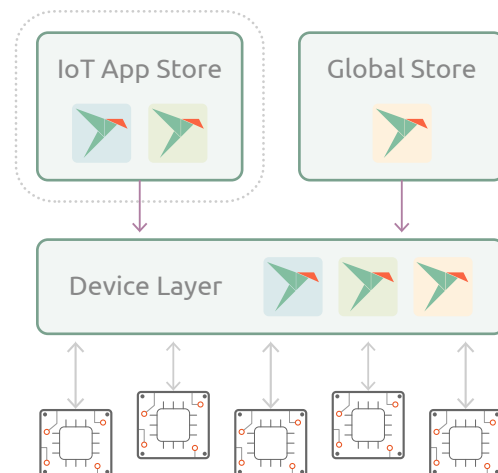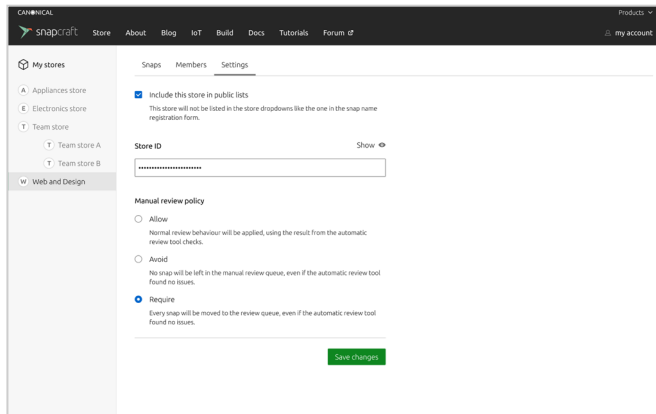


Diagram showing a typical store connection to a number of devices. Cherry pick the software you want your devices to see: in this diagram, two applications from the IoT App Store and one application from the global store have been selected for the device layer. These are the three applications that the devices will see and use.

## Automatic delta updates

All updates are automatic so you will never forget to update your devices again, meaning you are always secure. With update (or refresh) control, you can choose exactly when you want specific revisions of applications to be delivered to your devices.

Our technology implements delta updates. This means that whenever there is a new release, only the code that has changed will be downloaded, not the entire application code. By using delta updates, the amount of data downloaded on each release and the quantity of storage space required on the device is minimised. This in turn reduces the time taken for an update to be implemented.

## Dedicated dashboard



For every IoT App Store comes a dedicated dashboard, branded for your organisation. This interface allows your team to find and organise the software on your devices easily, with the ability to include or exclude software on your models of devices. Use the dashboard to control user permissions, assign roles and review published software.

Want to create a custom dashboard? No problem. We provide access to our APIs with full documentation to allow you to create the frontend you want and integrate the IoT App Store in your products.

## Account Delegation

The IoT App Store has built-in account delegation, perfect for assigning permissions within teams and organisations. Having 4 different roles available gives your teams flexibility in managing your software:

- **Administrator:** Manage all user roles and permissions. Choose which applications are available to your devices.
- **Publisher:** Upload and publish software. Configure a team of application collaborators for efficient software development.
- **Reviewer:** Review software updates and approve changes made to your applications.
- **Viewer:** View and download the applications in your private IoT App Store.

## No network? No problem.

As the need for hosting infrastructure on-premise increases, Canonical has built the Store Proxy. The Proxy has many functions, including control of revisions of individual applications. The Store Proxy also allows devices with restricted network access to connect to the global store, even through a firewall. Going beyond this, we offer the air-gapped mode of the Store Proxy. This mode allows devices completely disconnected from the internet to receive updates, intended for network-restricted environments where no outside traffic is allowed or possible. Users can manually side-load applications and associated updates to their devices, with a well-documented, easy-to-follow process.

## Your trusted partners in IoT

We work closely with our customers to solve complex problems together. Our talented engineers are experts in IoT and are well-qualified to provide expertise and guidance to both smaller businesses and larger enterprises. Whether you want to learn best practices for using the store or need on-demand assistance when unexpected issues arise, we have the solution for you. We offer training, consultancy days and support packages to match your needs.

Read how some of our customers are using Canonical's IoT products:

- Rigado cuts customers' time-to-market with Ubuntu Core and AWS
- Cyberdyne keeps cleaning robots up-to-date in the field with snaps
- How Domotz streamlined provisioning of IoT devices

## Contact Us

For more information about IoT and App Stores, contact us or call direct (US Central) +1 737 204 0291 or (UK) +44 203 656 5291

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